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ABSTRACT:

PROBLEM TO BE SOLVED: To obtain a soil improver that can make sludge waste reusable by admixing a hardener, a fertilizer component and a granulating agent to construction sludge or dredged sludge to granulate the waste soil into grains of suitable diameters and drying them.

SOLUTION: A hardening agent containing cations such as iron or aluminum, a fertilizer component such as an alkali metal oxide or potassium glass, a granulating agent such as starch syrup and vitreous foam produced from urban refuse that shows water-retaining properties and slow release of fertilizer components or at least one selected from components contributing to the growth of organisms such as a variety of minerals, carbohydrates, proteins, lignin and other amorphous polymeric substances, humic substances and microorganisms are admixed to construction sludge, dredged sludge, unutilized clay obtained from pottery industry, and the mixture is granulated and the granules obtained are dried to solid particles of a suitable particle size.

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